ATC ASSOCIATES INC.
600 West Cummings Park, Suite 5500, Woburn, Massachusetts 01801
(781) 932-9400, (781) 932-6211 fax

# PHASE CONTRAST MICROSCOPY ANALYSIS REPORT



**Client** *City of Newton*
*140 Brandeis Road*
*Newton MA 02459*

**Project No.** 60.23835.0004
**Project Location** Phase I, 3 & 4 Fls, Newton North HS, Newton, MA
**Date Collected** 8/31/2010

**Batch #** A10- 674
**Date Analyzed** 8/31/2010
**Analyst** Donn LaFlamme
**Analyst Number** AM041143
**Project Manager** Robert Verdi

| Sample No. | Sample Type 1 | Sample Type 2 | Sample Location | Sample Volume | Total Fibers | Total Fields Analyzed | Detection Limit f/cc | Concentration f/cc |
|---|---|---|---|---|---|---|---|---|
| 01 | Field Blank | | Field Blank | 0 | 0.0 | 100 | N/A | N/A |
| 02 | Field Blank | | Field Blank | 0 | 0.0 | 100 | N/A | N/A |
| 03 | Background | | Station #1 | 2380 | 3.0 | 100 | 0.001 | BDL |
| 04 | Background | | Station #2 | 2380 | 16.0 | 100 | 0.001 | 0.003 |
| 05 | Background | | Station #3 | 2380 | 2.0 | 100 | 0.001 | BDL |
| 06 | Background | | Station #4 | 2370 | 1.0 | 100 | 0.001 | BDL |
| 07 | Background | | Station #5 | 2340 | 1.0 | 100 | 0.001 | BDL |
| 08 | Background | | Station #6 | 2360 | 2.5 | 100 | 0.001 | BDL |

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| Sample No. | Sample Type 1 | Sample Type 2 | Sample Location | Sample Volume | Total Fibers | Total Fields Analyzed | Detection Limit f/cc | Concentration f/cc |
|---|---|---|---|---|---|---|---|---|
| 09 | Background | | West Hallway Outside Critical Barrier 4th Floor | 2330 | 2.0 | 100 | 0.001 | BDL |
| 10 | Background | | East Hallway Critical Barrier to Phase I 3rd Floor | 2250 | 3.0 | 100 | 0.002 | BDL |
| 11 | Background | | At Decon Entrance to Phase I Work Area 2nd Floor | 3000 | 4.0 | 100 | 0.001 | BDL |
| 12 | Background | | Station #1 | 1820 | 0.0 | 100 | 0.002 | BDL |
| 13 | Background | | Station #2 | 1820 | 1.0 | 100 | 0.002 | BDL |
| 14 | Background | | Station #3 | 1820 | 3.0 | 100 | 0.002 | BDL |
| 15 | Background | | Station #4 | 1820 | 2.0 | 100 | 0.002 | BDL |
| 16 | Background | | Station #5 | 1820 | 1.0 | 100 | 0.002 | BDL |

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**Analyst** Donn LaFlamme
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**Project Manager** Robert Verdi

| Sample No. | Sample Type 1 | Sample Type 2 | Sample Location | Sample Volume | Total Fibers | Total Fields Analyzed | Detection Limit f/cc | Concentration f/cc |
|---|---|---|---|---|---|---|---|---|
| 17 | Background | | Station #6 | 1820 | 0.0 | 100 | 0.002 | BDL |
| 18 | Background | | 3rd Floor Hallway at Critical Barrier East Side | 1910 | 2.0 | 100 | 0.002 | BDL |
| 19 | Background | | 4th Floor West Hallway at Phase I Critical Barrier | 1850 | 0.0 | 100 | 0.002 | BDL |
| 20 | Background | | At Decon Entrance | 1040 | 0.0 | 100 | 0.003 | BDL |

**Legend:** BDL = Below Detection Limit f/cc = Fibers per cubic centimeter

**Filter Information:** Filter Type =MCE Pore Size = 0.8μm Diameter = 25.0mm
Effective Filter Area = 385mm$^2$ Area Analyzed = 0.00785 mm$^2$

**Analytical Method:** NIOSH 7400

**Comments:** This laboratory is in compliance with the quality assurance as specified by this method
This report cannot be used to claim product endorsement by NVLAP or any agency of the U.S. Government

Respectfully Submitted,

Project Manager
ATC Associates Inc.

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# Air Quality Report

Client / Proj. #: 060.23835.0004
Job Site : Newton North High School
Work Area: Phase I - 3/4 floor
Date of Collection 8/31/10
Collected by: C. Elmore
Signature:

Date of Analysis: 8-31-10
Method of Analysis: 7400A
Analyst Signature: Joseph P Cooney
Microscope Make: Olympus
Microscope Model: CH2
Microscope Number: 001882

Project Manager Robert Verdi
On Site Contact: Trip Elmore
Phone Number:

Batch Number: 1074

| Sample No. | LOCATION | Sample Type | Pump On | Pump Off | Rotometer (LPM) | | Rate | Time | Air Volume | L.O.D. | Actual Count | Adjusted Count | Result | Analyst Initials |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (1-9) | (2400) | (2400) | On | Off | (LPM) | (Min) | (Liters) | 2.7/V | (/100) | (/100) | (F/CC) | |
| 01 | Field Blank | | | | | | | | | | 0/100 | | | DPC |
| 02 | Field Blank | | | | | | | | | | 0/100 | | | DPC |
| 03 | Station 1 | 1 | 0720 | 1118 | 10.0 | 10.0 | 10.0 | 238 | 2380 | .001 | 3/100 | — | <.001 | DPC |
| 04 | Station 2 | 1 | 0722 | 1120 | 10.0 | 10.0 | 10.0 | 238 | 2380 | .001 | 16/100 | — | .005 | DPC |
| 05 | Station 3 | 1 | 0724 | 1122 | 10.0 | 10.0 | 10.0 | 238 | 2380 | .001 | 2/100 | — | <.001 | DPC |
| 06 | Station 4 | 1 | 0727 | 1124 | 10.0 | 10.0 | 10.0 | 237 | 2370 | .001 | 1/100 | — | <.001 | DPC |
| 07 | Station 5 | 1 | 0732 | 1126 | 10.0 | 10.0 | 10.0 | 234 | 2340 | .001 | 1/100 | — | <.001 | DPC |
| 08 | Station 6 | 1 | 0732 | 1128 | 10.0 | 10.0 | 10.0 | 236 | 2360 | .001 | 2.5/100 | — | <.001 | DPC |
| #204 | West hallway outside critical barrier - 4th Flr. | 1 | 0802 | 1155 | 10.0 | 10.0 | 10.0 | 233 | 2330 | .001 | 2/100 | — | <.001 | DPC |
| #201 | East hallway critical barrier to Phase I - 3rd Flr. | 1 | 0806 | 1151 | 10.0 | 10.0 | 10.0 | 225 | 2250 | .001 | 3/100 | — | <.001 | DPC |
| #211 | At new entrance to Phase I work area - 2nd Flr. | 1 | 0813 | 1213 | 10.0 | 10.0 | 10.0 | 300 | 3000 | .001 | 4/100 | — | <.001 | DPC |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Work Phase: 1) Background 2) Pre Abatement 3) During Prep Work 4) During Removal 5) During Final Clean 6) During Glovebag Removal 7) Final Air Clearance 8) Personal Air Sample 9) Associated Work

Rotameter Number: Calibration Date: Relinquished By: Received By:

NOTE: The ATC Associates Inc. Lab meets the requirements set forth by AHERA 40 CFR 763.90 (i)(2)(ii). FILTERS ARE 25MM MCE.

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Pg 2/2

# Air Quality Report

Client / Proj. #: 060.23835.0004
Job Site : Newton North High School
Work Area: PHASE I - 3rd/4th Flr.
Date of Collection 8-31-10
Collected by: JOSEPH COONEY
Signature: Joseph F. Cooney

Date of Analysis: 8-31-10
Method of Analysis: NIOSH 7400
Analyst Signature: Joseph F. Cooney
Microscope Make: Olympus
Microscope Model: CH2
Microscope Number: 01/1882

Project Manager Robert Verdi
On Site Contact: Trip Elmore
Phone Number:
Batch Number:

| Sample No. | LOCATION | Sample Type | Pump On | Pump Off | Rotometer (LPM) | | Rate | Time | Air Volume | L.O.D. | Actual Count | Adjusted Count | Result | Analyst Initials |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | (1-9) | (2400) | (2400) | On | Off | (LPM) | (Min) | (Liters) | 2.7/V | (/100) | (/100) | (F/CC) | |
| ~~01~~ | Field Blank N/A | | | | | | | | | | | | | |
| ~~02~~ | Field Blank N/A | | | | | | | | | | | | | |
| 02 | Station #1 | 1 | 1118 | 1420 | 10.0 | 10.0 | 10.0 | 182 | 1820 | .001 | 0/100 | — | — | JFC |
| 03 | Station #2 | 1 | 1120 | 1422 | 10.0 | 10.0 | 10.0 | 182 | 1820 | .001 | 1/100 | — | < .001 | JFC |
| 04 | Station #3 | 1 | 1122 | 1424 | 10.0 | 10.0 | 10.0 | 182 | 1820 | .001 | 3/100 | — | < .001 | JFC |
| 05 | Station #4 | 1 | 1124 | 1426 | 10.0 | 10.0 | 10.0 | 182 | 1820 | .001 | 2/100 | — | < .001 | JFC |
| 06 | Station #5 | 1 | 1126 | 1428 | 10.0 | 10.0 | 10.0 | 182 | 1820 | .001 | 1/100 | — | < .001 | JFC |
| 07 | Station #6 | 1 | 1128 | 1430 | 10.0 | 10.0 | 10.0 | 182 | 1820 | .001 | 0/100 | — | — | JFC |
| ~~08~~ 08 | 3RD flr - hallway @ critical barrier eastside | 1 | 1151 | 1502 | 10.0 | 10.0 | 10.0 | 191 | 1910 | .001 | 2/100 | — | < .001 | JFC |
| ~~09~~ 09 | 4TH Flr WEST hallway @ PHASE I critical barrier | 1 | 1155 | 1500 | 10.0 | 10.0 | 10.0 | 185 | 1850 | .001 | 0/100 | — | — | JFC |
| ~~10~~ 10 | Art Dept entrance | 1 | 1313 | 1457 | 10.0 | 10.0 | 10.0 | 104 | 1040 | .002 | 0/100 | — | — | JFC |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Work Phase: 1) Background 2) Pre Abatement 3) During Prep Work 4) During Removal 5) During Final Clean 6) During Glovebag Removal 7) Final Air Clearance 8) Personal Air Sample 9) Associated Work

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